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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,992	04/21/2004	Jerome Bombal	TI-35112	5501
	7590 08/19/200 RUMENTS INCORPOI	EXAMINER		
PO BOX 6554	74, M/S 3999	DARE, RYAN A		
DALLAS, TX 75265		ART UNIT	PAPER NUMBER	
			2186	
			NOTIFICATION DATE	DELIVERY MODE
			08/19/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com

	Application No.	Applicant(s)				
Office Action Comments	10/828,992	BOMBAL, JEROME				
Office Action Summary	Examiner	Art Unit				
	RYAN DARE	2186				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>09 Ap</u>	nril 2009					
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<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
	Claim(s) <u>25-31</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
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5) Claim(s) is/are allowed. 6) Claim(s) <u>25-31</u> is/are rejected.						
7) Claim(s) is/are rejected.						
8) Claim(s) are subject to restriction and/or	coloction requirement					
are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 25-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freidin et al., US Patent 5,955,988, in view of Hildebrant, US PGPub 2005,0193294.
- 3. With respect to claim 25, Freidin teaches a first-in first-out memory comprising:

A. memory circuitry having word storage slots, each word storage slot containing a same certain number of bits, and having a read pointer address input and a write pointer address input, in col. 6, lines 11-51, where memory unit 340 is the memory;

- B. data read/write circuitry having a parallel port selectively coupled with each word storage slot, a system data path, a control input, and a scan data input/output, in col. 6, lines 11-3;
- C. control circuitry having a read pointer address output connected with the read pointer address input and a write pointer address output connected with the write pointer address input, the control circuitry having a control output connected with the control input of the data read/write circuitry, in col. 6, lines 11-51; Freidin fails to teach a scan storage output. Hildebrant teaches a scan storage output and:
- D. scan storage circuitry separate from the memory circuitry, the scan storage circuitry having a serial input, a serial output, a scan data output/input connected with the scan data input/output of the data read/write circuitry, and a control input connected with the scan control output, in par. 5.

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4. It would have been obvious to one of ordinary skill in the art, having the teachings of Freidin and Hildebrant before him at the time the invention was made, to modify the memory system of Freidin with the memory system of Hildebrant in order to test the circuit, which is critical to confirm proper operation.

- 5. With respect to claim 26, Freidin teaches the memory of claim 25 in which the scan storage circuit is serial shift circuitry having the certain number of bits, so that the serial shift circuitry has the same number of bits as a word storage slot, in col. 3, lines 40-48.
- 6. With respect to claim 27, Freidin teaches the memory of claim 25 in which the scan storage circuit is serial shift circuitry having the certain number of bits, so that the serial shift circuitry has the same number of bits as a word storage slot, and the scan input/output is a parallel connection of the certain number of bits from and to the data read/write circuitry, in col. 6, lines 11-51..
- 7. With respect to claim 28, Freidin teaches the memory of claim 25 in which the memory circuitry is free of scan circuitry, in col. 6, lines 11-51.
- 8. Claims 29-30 are rejected using similar reasoning as claims 25-26.
- 9. With respect to claim 31, Freidin teaches the process of claim 29 including incrementing the read pointer address and the write pointer address and repeating steps B., C, and D., in col. 6, lines 11-51.

Response to Arguments

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10. Applicant's arguments with respect to claims 26-31 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN DARE whose telephone number is (571)272-4069. The examiner can normally be reached on Mon-Fri 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on (571)272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matt Kim/ Supervisory Patent Examiner, Art Unit 2186

/Ryan Dare/ August 16, 2009